

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A dishwasher, comprising:

a washing chamber;

top and bottom nozzles ~~injecting water in that supply washing fluid to the washing~~ chamber;

a sump provided under the washing chamber ~~to store the water that receives~~ washing fluid;

a pump ~~pumping the water stored in that pumps washing fluid from~~ the sump;

a supply pipe ~~adjacent to one side of in fluid communication with~~ the pump, wherein ~~the water washing fluid~~ pumped by the pump flows ~~in into~~ the supply pipe;

upper and lower pipes ~~connected coupled to the supply pipe, to lead the water~~ wherein the upper and lower pipes lead washing fluid from the supply pipe to the top and bottom nozzles, respectively;

a valve rotatably installed at a connecting portion between the supply pipe and the upper and lower pipes, ~~to wherein the valve selectively opens/closes~~ the supply pipe and the upper and lower pipes; and

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a ~~driving means for turning the valve by checking a driver that determines a first position of the valve and turns the valve to a second position based on the determined first position.~~

2. (Currently Amended) The dishwasher as claimed in claim 1, wherein the valve has a semi-cylindrical shape ~~so that upper and lower ends are hinge coupled such that the valve is rotatably installed~~ between the supply pipe and the upper and lower pipes.

3. (Currently Amended) The dishwasher as claimed in claim 1, the ~~driving means~~ driver comprising:

a motor ~~rotating that rotates~~ a rotational shaft ~~connected~~ coupled to the valve; a cam ~~connected~~ coupled to the rotational shaft, ~~to~~ wherein the cam rotates together with the valve, the cam having a plurality of sections differing in radius from each other; and

a sensing unit brought contact with sensor that contacts an outer circumference of the cam so as to control an operation of the motor.

4. (Currently Amended) The dishwasher as claimed in claim 3, wherein the motor is a step motor ~~enabling to that~~ adjusts a rotational angle thereof based on a required position of the valve.

5. (Currently Amended) The dishwasher as claimed in claim 3, wherein the cam comprises a first cam having a first radius and a second ~~earm~~ cam having a second radius smaller than the first radius.

6. (Currently Amended) The dishwasher as claimed in claim 3, the ~~sensing unit~~ sensor comprising:

a button ~~brought contact with the outer circumference of the cam to be that is~~ compressed or restored based on a position of the cam relative to the button; and
a ~~micro~~-switch ~~that is turned on or shut off according to control the motor based~~ on a compression or restoration of the button to control the motor.

7. (Currently Amended) The dishwasher as claimed in claim 6, wherein the cam comprises a first cam having a first radius configured to compress the button and a second cam having a second radius smaller than the first radius configured to restore the compressed button.

8. (Currently Amended) The dishwasher as claimed in claim 6, wherein the ~~micro~~ switch cuts off ~~a power applied to the motor for after~~ a predetermined time ~~on being switched on/off has elapsed after the switch is switched on or off.~~

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9. (Currently Amended) The dishwasher as claimed in claim 6, the sensing unit sensor further comprising a lever provided between the cam and the button, ~~to compress or restore the button by being brought contact with~~ wherein the lever contacts the outer circumference of the cam and compresses or restores the button based on a portion of the outer circumference of the cam which is contacted by the lever.

10. (Currently Amended) The dishwasher as claimed in claim 9, wherein the cam comprises a first cam having a first radius configured to compress the button and a second cam having a second radius smaller than the first radius configured to restore the compressed button.

11. (Currently Amended) The dishwasher as claimed in claim 9, wherein the ~~micro~~ switch cuts off ~~a power applied to the motor for~~ after a predetermined time ~~on being switched on/off~~ has elapsed after the switch is switched on or off.

12. (New) The dishwasher as claimed in claim 1, wherein the valve blocks the lower pipe and allows washing fluid to flow from the supply pipe to the upper pipe in the first position, and wherein the valve blocks the supply pipe to restrict the flow of washing fluid to the upper and lower pipes in the second position.

13. (New) The dishwasher as claimed in claim 12, wherein the valve blocks the upper

pipe and allows washing fluid to flow from the supply pipe to the lower pipe in a third position, and wherein the valve allows water to flow from the supply pipe to both the upper and lower pipes in a fourth position.

14. (New) A dishwasher, comprising:

a washing chamber;

upper and lower nozzles that supply washing fluid to the washing chamber;

a supply pipe that receives washing fluid from a pump;

upper and lower pipes that extend between the supply pipe and the upper and lower nozzles, respectively, so as to direct washing fluid to the upper and lower nozzles;

a valve provided between the supply pipe and the upper and lower pipes, wherein the valve rotates through a plurality of positions so as to selectively open and close the supply pipe, the upper pipe and the lower pipe;

a sensor that senses a current position of the valve; and

a motor that turns the valve to a new position based on the current position sensed by the sensor.

15. (New) The dishwasher as claimed in claim 14, further comprising a cam that rotates with the valve, wherein a first portion of the cam has a first radius, and a second portion of the cam has a second radius that is less than the first radius.

16. (New) The dishwasher as claimed in claim 15, wherein the sensor comprises:

- a switch coupled to the motor;
- a button provided on the switch; and
- a lever positioned between the cam and the button.

17. (New) The dishwasher as claimed in claim 16, wherein an end of the lever contacts an outer circumferential surface of the cam as the cam rotates with the valve, wherein the lever compresses the button when the lever contacts the outer circumferential surface of the first portion of the cam, and the lever releases the button when the lever contacts the outer circumferential surface of the second portion of the cam.

18. (New) The dishwasher as claimed in claim 17, wherein the switch is actuated and the sensor senses a current position of the valve when the button is compressed by the lever, and wherein the switch is de-actuated and the sensor senses a current position of the valve when the button is released by the lever.

19. (New) The dishwasher as claimed in claim 18, wherein the sensor cuts off power to the motor after a predetermined amount of time has elapsed after the switch is actuated or de-actuated such that the valve can be stopped in desired positions.

20. (New) The dishwasher as claimed in claim 19, wherein the plurality of positions comprises:

at least one first position at which the switch is actuated or de-actuated; and

at least one second position, wherein the at least one second position is at a rotational position that is a predetermined number of degrees after the switch is actuated or de-actuated at the at least one first position.